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(54) LIGHT TRANSMISSION BODY FOR LIGHT DIFFUSION

(57)Abstract:

PURPOSE: To uniformize exit light over a wide area by projecting the light from a wire-shaped light source on an optically transparent light transmission body having a specific refractive index and shape, then emitting and diffusing the rays of respective modes progressing in the light transmission body while making total reflection therein gradually from the boundary face on the exit side.

CONSTITUTION: This light transmission body is constituted of an optically transparent medium. At least one face of two wide faces P1, P2 is used as a light exit face and a face P5 or P6 existing at the end of the two faces P1, P2 is used as a light incident face. At least a part of the sections P3, P4 in the direction orthogonal with the wide faces P1, P2 is formed approximately to a wedge shape and at least one of the wide faces P1, P2 is formed to such a concave face the section of which constitutes a quadrics or higher curved surface. The refractive index (n) of the medium is so determined as to satisfy $1.4 \leq n \leq 1.6$. The light is thereby diffused approximately uniformly over the entire light diffusion surface.



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